

## CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application.

These amendments introduce no new matter and support for the amendment is replete throughout the specification and claims as originally filed. These amendments are made without prejudice and are not to be construed as abandonment of the previously claimed subject matter, or agreement with any objection or rejection of record.

### LISTING OF CLAIMS

1. **(Currently Amended)** A method of testing a human patient for attention deficit hyperactivity disorder (ADHD) status, the method comprising:  
  
testing for the presence of at least one marker having a locus within a block of polymorphism in linkage disequilibrium with surrounding a DRD4 7R allele in the patient, wherein the at least one polymorphism is selected from the group consisting of:
  - a) an A polymorphism of the A-C SNP pair in DRD4 intron 3;
  - b) a C polymorphism of the A-C SCP pair in DRD4 intron 3;
  - c) an L1 polymorphism in the DRD4 promoter region;
  - d) an L2 polymorphism in DRD4 exon 1; and
  - e) a combination of any of (a)-(d), and  
evaluating the level of dopamine release in the patient in response to a stimulus wherein presence or absence of the DRD4 7R allele and the level of dopamine release in response to the stimulus together provide an indication of the patient's ADHD status.
2. **(Original)** The method of claim 1, wherein the level of dopamine is evaluated using imaging of the brain.
3. **(Original)** The method of claim 1, wherein the stimulus is exercise.
4. **(Original)** The method of claim 1, wherein the level of dopamine release is measured in a

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body fluid of the patient.

5. **(Currently Amended)** The method of claim 4, wherein the body fluid is selected from the ~~list~~group consisting of: blood, urine and saliva.

6-8. **(Cancelled)**